



revised 10/26/2011 3:03:00 PM

# FACILITY COMPLIANCE AUDIT REPORT

## Division of Waste Management

### Solid Waste Section

#### UNIT TYPE:

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: <b>Chatham</b> PERMIT NO.: <b>19-08</b> FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM		
CDLF		Tire T&P / Collection	<b>X</b>	Tire Monofill		Industrial Landfill		DEMO		SDTF		

**Date of Audit:** October 11, 2011 (and site visit: 10/14/11) **Date of Last Audit:** July 26, 2011 (partial audit)

#### **FACILITY NAME AND ADDRESS:**

Metro Energy Corp. Scrap Tire Collection & Processing Facility  
3313 Bowers Store Road  
Silk Hope, NC 27344

**GPS COORDINATES:** **N:** 35.77401 **E:** 79.32060

#### **FACILITY CONTACT NAME AND PHONE NUMBER:**

Michael Tucker, President  
Metro Energy Corp.  
c. 919-818-6807  
w. 919-818-9476  
h. 919-542-1044  
[mtucker@metroenergync.com](mailto:mtucker@metroenergync.com)

#### **FACILITY CONTACT ADDRESS:**

Michael Tucker, President  
Metro Energy Corp.  
11312 US 15-501 Hwy, North  
Suite 107-103  
Chapel Hill, NC 27517

#### **AUDIT PARTICIPANTS:**

John Patrone, NCDENR – Solid Waste Section (SWS)  
Michael Tucker, President/Owner/Operator (via telephone 10/19&25/11 and correspondence received 10/26/11)

#### **STATUS OF PERMIT:**

Permit To Operate (PTO) issued May 26, 2011  
Permit To Construct (PTC) issued in conjunction with PTO  
PTC expiration November 22, 2011  
PTO expiration date May 26, 2016

#### **PURPOSE OF AUDIT:**

Comprehensive Audit

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 2 of 5

**NOTICE OF VIOLATION:**

None

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**STATUS OF PAST NOTED VIOLATION(S):**

None

**AREAS OF CONCERN AND COMMENTS:**

On October 11, 2011, John Patrone conducted a comprehensive audit of the Metro Energy Corp. Scrap Tire Collection & Processing Facility on Bowers Store Road, in Silk Hope, Chatham County. And on October 14, 2011, Mr. Patrone conducted a site visit to the facility.

1. The facility is permitted for a scrap tire collection and processing operation.
2. Attachment 2 of the facility permit, Conditions of Permit to Construct, Part I, No. 5 – Conditions for Permit to Operate have been demonstrated. Robert Hearn, SWS, stated in an email to Mr. Patrone that on May 26, 2011 the facility pre-operational inspection was conducted.
3. Facility capacity is  $\leq 1,200$  scrap tires and  $\leq 10$  tons of shredded tires/crumb rubber at any one time.
4. At least 75 percent of both scrap tires and processed tires that are delivered to or maintained on the site shall be processed and removed for recycling or disposal within 1 year of receipt.
5. Mr. Tucker stated (10/19/11) that the facility is not open to the general public.
6. The Metro Energy Corp. scrap tire hauler identification number is NCT02307.
7. The scrap tire storage area is designated by large cement blocks, forming a rectangle. The blocks are to prohibit liquid runoff due to a tire fire from entering any surface water.
8. Ensure that the scrap tire storage area is free of grass, underbrush, and other potentially flammable vegetation. It is suggested that vegetation immediately outside of the scrap tire storage area be removed or routinely mowed.
9. Scrap tires were observed on site, stacked accordingly, stored in the scrap tire storage area.
10. The scrap tire pile appeared to be 20' x 10' x 5'.
11. The scrap tires were covered with a tarp. However during the site visit, the tarp had blown halfway-off. Ensure that the scrap tire cover/tarp is held-down with appropriate device. Not to be held-down with scrap tires.
12. Mr. Tucker stated (10/19/11) that there are 733 scrap tires on site.
13. Metro Energy Corp. hauls all scrap tires to the facility. Mr. Tucker submitted North Carolina scrap tire certification forms (10/26/11) to the SWS. Certification records indicate that 8.14 tons or (@ 90 scrap tires/ton) 732.6 scrap tires were received by the facility, hauled from Republic Services of North Carolina LLC – Upper Piedmont Regional Landfill (73-04). All scrap tires are currently stored on site.
14. It is understood, per Mr. Tucker's letter dated March 18, 2011, that the facility permit does not allow for the production of shredded tires/crumb rubber until the associated equipment is approved by the SWS.
15. The facility is permitted to produce tire shreds via manual operation method.
16. During the inspection tire shreds and shredded tires/crumb rubber were not observed on site.
17. Ensure that scrap tires are recycled or disposed at a permitted solid waste management facility prior to exceeding facility capacity.
18. Two storage containers are on site. Each container is  $\sim 43 \text{ yd}^3$  ( $42.89 \text{ yd}^3$  and  $43.33 \text{ yd}^3$ ). The containers were closed. Mr. Tucker stated (10/25/11) that one container is used to store tools for manual operation tire shredding and the other container will be used to store scrap tires for resale. Scrap tires for resale account for a small portion of the Metro Energy Corp. business plan, accounting for 3 to 5 percent of tires received. Ensure that scrap tires stored in containers for resale are removed from the site within 30 days.

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 3 of 5

19. A fire safety survey shall be conducted annually by local fire protection authorities. The facility should maintain a copy of the fire safety survey on site for verification.
20. In case of fire, the facility is required to contact the SWS within 24 hours of the occurrence and written notification submitted within 15 days.
21. Please provide this office with an updated copy of the facility emergency preparedness manual to include language as stated in Attachment 3 of the facility permit, Conditions of Permit to Operate, Part 1, Facility Specific Conditions, 6(c).
22. The facility has proper signage.
23. The facility is secured by locked plastic chain link strung along the front of the lot.
24. Ensure that SWS – Permitting has approved equipment related to shredded tires/crumb rubber production prior to purchase and installation. The facility will be required to obtain a permit modification prior to construction and operation of the shredded tires/crumb rubber production phase.
25. Correspondence from SWS (10/21/11), Mr. Tucker was provided a link to Solid Waste Rules, 15A NCAC 13B .1100, “Scrap Tire Management.”
26. The permit expiration date is May 26, 2016.
27. Permit renewal application should be submitted to the SWS by November 26, 2015.

Please contact me if you have any questions or concerns regarding this audit report.



John Patrone  
Environmental Senior Specialist  
*Regional Representative*

Phone: 336-771-5095 Fax: 336-771-4631

Delivered on : <u>October 26, 2011</u> by		Hand delivery/Email	<b>X</b>	US Mail		Certified No. <u>  </u>
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cc: Dennis Shackelford, Eastern District Supervisor  
Shawn McKee, Compliance Officer  
Ellen Lorscheider, Planning and Programs Branch Head  
Geof Little, Permit Engineer

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 4 of 5

Digital photographs taken October 11 & 14, 2011  
by John Patrone, DWM – SWS

Facility sign and security chain at entrance (10/11/11)



Covered scrap tires, grass in scrap tire storage area, and scrap tires used as tarp weights (10/11/11)



Stacked scrap tires (view from underneath tarp, 10/11/11)



Two storage containers (10/11/11)





**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 5 of 5

Facility office (10/11/11)



Scrap tires uncovered (10/14/11)

